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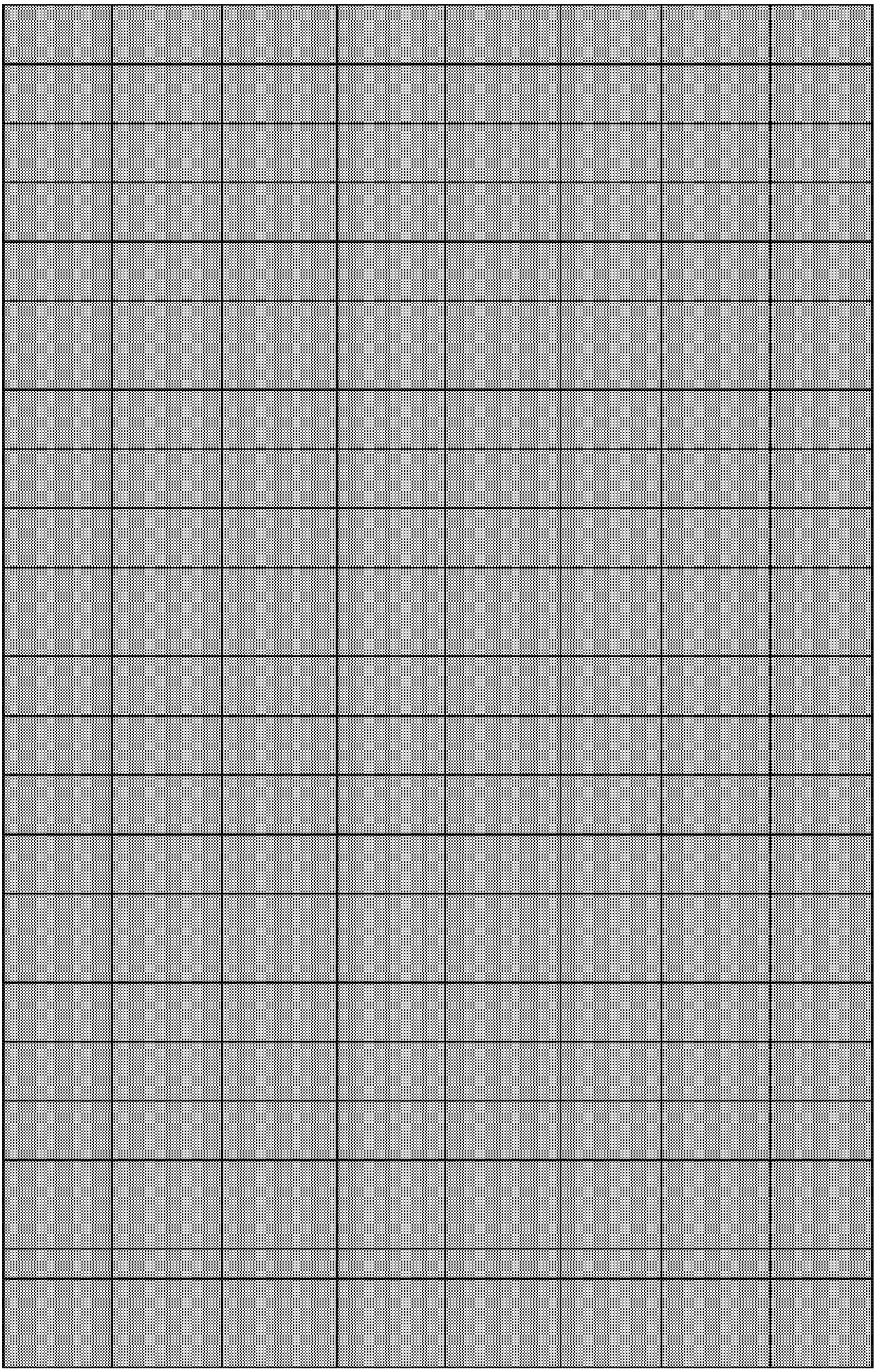

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The naturally occurring polyamine spermidine (Spd) has recently been shown to promote longevity across species in an a
There is a relationship between various cellular stress factors and aging. In earlier studies, we demonstrated that overex
A fundamental challenge facing physiological ecologists is to understand how variation in life history at the whole-organi
The present study investigated the anti-ageing activity of sesamin and its effect on gene expression of superoxide dismut
Mitochondrial dysfunction caused by protein aggregation has been shown to have an important role in neurological dise
The effects of hydrophilic synthetic antioxidant TC-13 sodium (3'-(3'-tert-butyl-4'-hydroxyphenyl)propylthiosulfonate on
Malate, the tricarboxylic acid (TCA) cycle metabolite, increased lifespan and thermotolerance in the nematode C. elegans
Globins constitute a superfamily of heme-binding proteins that is widely present in many species. There are 33 putative g
Statins are cholesterol-lowering drugs that inhibit 3-hydroxy-3-methyl-glutaryl-CoA (HMG-CoA) reductase, the rate-limiti
Paraquat (PQ; 1, 1'-dimethyl-4-4'-bipyridinium), an herbicide and model neurotoxicant, is identified to be one of the prim
More than 130 different mutations in the Cu/Zn superoxide dismutase (SOD1) gene have been associated with amyotrop
Melatonin (N-acetyl-5-methoxytryptamine) is a chemical mediator produced in the pineal gland and other sites in the bo
Heat shock proteins (HSPs) are molecular chaperones and have an important role in the refolding and degradation of mis
Dietary copper is essential for multicellular organisms. Copper is redox active and required as a cofactor for enzymes suc
Paraquat (PQ), a quaternary nitrogen herbicide, is commonly used as a pesticide despite of its high toxicity. Our study ev
Although realgar bioleaching solution (RBS) has been proved to be a potential candidate for cancer therapy, the mechani
Regular consumption of fruits and vegetables is associated with reduced risk of age-related functional decline and chroni
Growth hormone (GH) and insulin-like growth factor (IGF) signaling regulates lifespan in mice. The modulating effects of
LEC-1 is a major galectin in Caenorhabditis elegans and contains two carbohydrate recognition domains (CRDs), N-CRD a
Pantothenate Kinase-Associated Neurodegeneration (PKAN) is a neurodegenerative disorder with a poorly understood m
XPC is one of the key DNA damage recognition proteins in the global genome repair route of the nucleotide excision repa
AIMS: To investigate the role of endogenous hydrogen sulfide (H2S) in the control of aging and healthspan of Caenorhab

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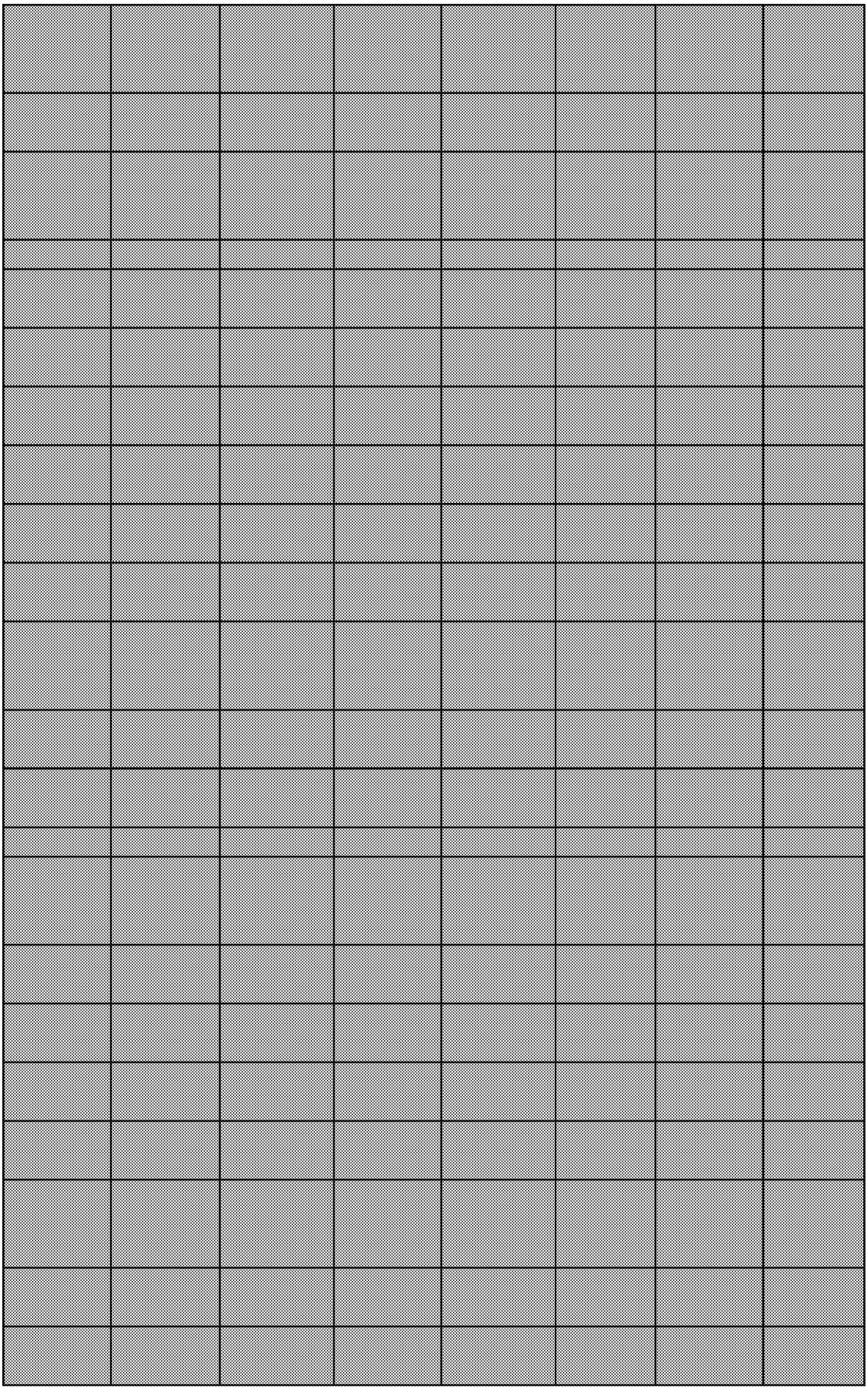

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In this paper, we have demonstrated for the first time, the antioxidant and neuroprotective effects of Decalepis hamilton
Fibroblasts from long-lived mutant mice show diminished phosphorylation of the stress-activated protein kinases ERK1/2
We investigated the anti-aging effects of Ludwigia octovalvis (Jacq.) P. H. Raven (Onagraceae), an extract of which is wide
Lipocalins are small extracellular proteins mostly described as lipid carriers. The Drosophila lipocalin NLaz (neural Lazarill
Micronutrients are essential for normal metabolic processes during early development. Specifically, it has been suggeste
Understanding the mechanism(s) by which dopaminergic (DAergic) neurons are eroded in Parkinson's disease (PD) is crit
Here in this study, we isolated 1,2,3,4,6-penta-O-galloyl-beta-D-glucose (PGG) from Curcuma longa L. and elucidated the
8-Oxo-dGTP, an oxidised form of dGTP generated in the nucleotide pool, can be incorporated opposite adenine or cytosir
Saccharomyces cerevisiae Nar1p is an essential Fe/S protein that exhibits striking similarity to bacterial iron-only hydroge
PURPOSE: Nutritional control has been proposed as a potential therapy for slowing the senescence of immune function a
We describe herein our results on the synthesis and biological properties in Caenorhabditis elegans of a range of 4-organ
Environmental factors have been implicated in the etiology of a number of neurodegenerative diseases, including amyot
Human oxidation resistance 1 (OXR1) functions in protection against oxidative damage and its homologs are highly conse
Disorders arising from impaired assembly of succinate dehydrogenase (SDH) result in a myriad of pathologies, consistent
In man, COX (cytochrome c oxidase) deficiency is reported to be related to mutation of the SCO2 (synthesis of cytochrom
Species differ greatly in their rates of aging. Among mammalian species life span ranges from 2 to over 60 years. Here, w
Long-term exposure to environmental oxidative stressors, like the herbicide paraquat (PQ), has been linked to the develc
Longevity is correlated with stress resistance in many animal models. However, previous efforts through the boosting of
Mild inhibition of mitochondrial respiration extends the lifespan of many species. In Caenorhabditis elegans, reactive oxy
Paraquat (PQ) exposure causes degeneration of the dopaminergic neurons in an exposed organism while altered metabc
For screening anti-aging samples from marine natural products, K6001 yeast strain was employed as a bioassay system. T

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